

## Adv Alg 2 w4 Tuesday Warmup

Adv Alg 2 Week 4 Tuesday Warm-up

1. The table shows the number of hours you studied before your eight math tests and your percent score on each test.

Number of Hours	8	5	12	10	2	9	11	14
Score (%)	75	62	80	85	35	70	82	95

- a) Find the equation of the line of best fit.
- b) What is  $r$ ? Describe the correlation.
- c) Use your equation to find your score if you studied 3 hours.
- d) Use your equation to find out how many hours you need to study to get a score of 90.

1)  $y = 4.4720x + 33.3111$

2)  $r=0.9475$ ; This is a strong positive correlation.

3) 47%

4) about 13 hours